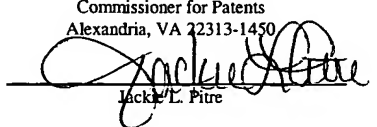


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/693,818
Filing Date: October 24, 2003
Confirmation No.: 1103
Inventors: Vinegar et al.

Title: STAGED AND/OR
PATTERNED HEATING
DURING IN SITU THERMAL
PROCESSING OF A
HYDROCARBON
CONTAINING FORMATION

Examiner: unknown
Art Unit: 3672
Atty. Dkt. No.: 5659-21500

<p align="center">CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8</p> <p>DATE OF DEPOSIT: <u>5/18/04</u></p> <p>I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail on the date indicated above and is addressed to:</p> <p align="center">Commissioner for Patents Alexandria, VA 22313-1450</p> <p align="center"> Jackie L. Pitre</p>

INFORMATION DISCLOSURE STATEMENT

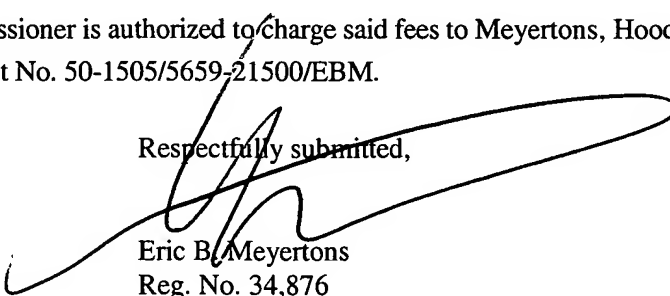
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

It is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 (references A341-A348, B1, C103-C107, D10, E11-E14, F3, G3, G4, G6, G9, H2, L12, AA01-AA10, AA12-AA14, FO1-4, AC1-4, and CC01) be considered by the Examiner and made of record. Copies of the listed documents are enclosed for the convenience of the Examiner.

Should any fees be required, the Commissioner is authorized to charge said fees to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 50-1505/5659-21500/EBM.

Respectfully submitted,

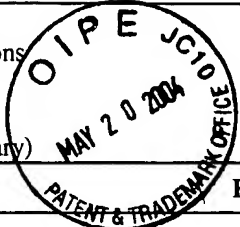

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Date: 5/18/04

Form PTO-1449 (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)		ATTY. DKT. NO. 5659-21500 INVENTORS: Vinegar et al. FILING DATE: 10/24/2003		SERIAL NO.: 10/693,818 CONFIRMATION NO.: 1103 GROUP: 3672	
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FOREIGN PATENT DOCUMENTS							
EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
	AA01	983,704	2/17/1976	CA			
	AA02	294809	12/14/1988	EP			
	AA06	357314	9/22/1993	EP			
	AA07	1010023	11/17/1965	GB			
	AA08	1588693	4/29/1981	GB			
	AA09	98/50179	11/12/1998	WO			
	AA14	130 671	9/1/1985	EP			

OTHER ART		
	A341	Wong et al., "An Evaluation of Triple Quadruple MS/MS for On-Line Gas Analyses of Trace Sulfur Compounds from Oil Shale Processing," January 1985, 30 pages.
	A342	Wong et al., "Source and Kinetics of Sulfur Species in Oil Shale Pyrolysis Gas by Triple Quadruple Mass Spectrometry," October 1983, 14 pages.
	A343	Cena et al., The Centralia Partial Seam CRIP Underground Coal Gasification Experiment, June 1984, 38 pages.
	A344	Hill et al., "Results of the Centralia Underground Coal Gasification Field Test," August 1984, 18 pages.
	A345	Cena et al., "Excavation of the Partial Seam CRIP Underground Coal Gasification Test Site, August 14, 1987, 11 pages.
	A346	Cena et al., "Assessment of the CRIP Process for Underground Coal Gasification: The Rocky Mountain I Test," August 1, 1988, 22 pages.
	A347	Camp et al., "Mild Coal Gasification-Product Separation, Pilot-Unit Support, Twin Screw Heat Transfer, and H ₂ S Evolution," August 9, 1991, 12 pages.
	A348	Stone et al., "Underground Coal Gasification Site Selection and Characterization in Washington State and Gasification Test Designs," September 10, 1980, 62 pages.
	B1	"Proposed Field Test of the Lims Method Thermal Oil Recovery Process in Athabasca McMurray Tar Sands" McMurray, Alberta; Husky Oil Company Cody, Wyoming.
	C103	Byer, et al., "Appalachian Coals: Potential Reservoirs for Sequestering Carbon Dioxide Emissions from Power Plants While Enhancing CBM Production;" Proceedings of the International Coalbed Methane Symposium.
	C104	Hanisch, C., "The Pros and Cons of Carbon Dioxide Dumping Global Warming Concerns Have Stimulated a Search for Carbon Sequestration Technologies," Environmental Science and Technology, American Chemical Society, Easton, PA.
	C105	Schoeling et al., "Pilot Test Demonstrates How Carbon Dioxide Enhances Coal Bed Methane Recovery," Petroleum Technology Digest, September 2000, pp. 14-15.
	C106	Berchenko et al., "In Situ Measurement of Some Thermoporoelastic Parameters of a Granite," Poromechanics, A Tribute to Maurice Biot, 1998, pp. 545-550.
	C107	Kalkreuth et al., "Conversion characteristics of selected Canadian coals based on hydrogenation and pyrolysis experiments," Geological Survey of Canada, Paper 89-8, 1989, pages 108-114, XP001014535.
	D10	Collin et al., Tar and Pitch, Ullmann's Encyclopedia of Industrial Chemistry, Vol. A 26, 1995, pp. 91-127.
	E11	Kirk et al., Coal, Encyclopedia of Chemical Technology, Wiley, New York, 4th edition, 1991, Vol. 6, pp. 423-488.
	E12	Cortez et al., UK Patent Application GB 2,068,014 A, Date of Publication: August 5, 1981.
	E13	Wellington et al., US Patent Application 60/273,354, Filed March 5, 2001.

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DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Form PTO-1449 (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)		ATTY. DKT. NO. 5659-21500	SERIAL NO.: 10/693,818
		INVENTORS: Vinegar et al.	CONFIRMATION NO.: 1103
		FILING DATE: 10/24/2003	GROUP: 3672
	E14	The VertiTrak System Brochure, Baker Hughes, INT-01-1307A4, 2001, 8 pages.	
	F3	Singer et al., "Thermal, Mechanical, and Physical Properties of Selected Bituminous Coals and Cokes," US Department of Interior, Bureau of Mines, 1979, Government Report No. 8364.	
	G3	Rogers, R. E., Coalbed Methane: Principles and Practice, Prentice-Hall, Inc. 1994, pp. 68-97.	
	G4	Department of Energy Coal Sample Bank and Database http://www.energy.psu.edu/arg/doesb.htm , June 4, 2002.	
	G6	Rogers, R. E., Coalbed Methane: Principles and Practice, Prentice-Hall, Inc. 1994, pp. 164-165.	
	G9	Hyne, N. J., Geology for Petroleum Exploration, Drilling, and Production. McGraw-Hill Book Company, 1984, p. 264.	
	H2	Hobson, G. D., Modern Petroleum Technology, Halsted Press, Applied Science Publishers LTD. 1973, pp. 786-787.	
	L12	Van Krevelen, COAL: Typology-Physics-Chemistry-Constitution, 1993, pp. 27, 42, 52, 322, 323, 324, 325, 326, 526, 527, 726.	
	AA03	Genrich et al., "A Simplified Performance-Predictive Model for In-situ Combustion Processes", Society of Petroleum Engineers Reservoir Engineering, May 1988, pp. 410-418.	
	AA04	Adegbesan et al., "Low-Temperature-Oxidation Kinetic Parameters for in-Situ Combustion: Numerical Simulation", SPE Reservoir Engineering, November 1987, pp. 573-582.	
	AA05	"Brief: Magnetostatic Well-Tracking Technique for Drilling Horizontal Parallel Wells" J. Petroleum Technology, 1995, pp. 119-120.	
	AA10	Nekut et al., "Rotating Magnet Ranging-A New Drilling Guidance Technology", Vector Magnetics, Presentation, June 2000, p. 1-24.	
	AA12	Rangel-German et al., "Electrical-Heating-Assisted Recovery for Heavy Oil", pages 1-43.	
	AA13	Kovscek, A. R., "Reservoir Engineering analysis of Novel Thermal Oil Recovery Techniques applicable to Alaskan North Slope Heavy Oils", pages 1-6.	
	FO1	"Temperature Monitoring Using Fiber-Optic Sensors", www.steamtech.com/fiberoptics.html , August 4, 2003, 6 pages.	
	FO2	"Fiber Optic Permanent Reservoir Monitoring Systems: Bringing a Continuous Stream of Reservoir Information to the Surface", www.SensorTran.com/DTS%20whitepaper1.pdf , downloaded August 4, 2003, 13 pages.	
	FO3	"Catalytic Glow Plugs and Ignitors", www.holdfastmac.com.au/howglowplug.html , August 4, 2003, 6 pages.	
	FO4	Hurtig et al., "Distributed Fiber Optics for Temperature Sensing in Building and other Structures," Proceedings of the 24 th Annual Conference of the IEEE Industrial Electronics Society, August 4, 1998, pp. 1829-1834.	
	AC1	Yamamoto et al., "Borehole Acoustic Reflection Survey Experiments in Horizontal Wells for Accurate Well Positioning", SPE/Petroleum Society of CIM, November 2000, 7 pages.	
	AC2	Coates et al., "Single-well Sonic Imaging: High -Definition Reservoir Cross-sections from Horizontal Wells", SPE/Petroleum Society of CIM 65457, November 2000, 10 pages.	
	AC3	Esmersoy et al., "Acoustic imaging of reservoir structure from a horizontal well", Submitted to Leading Edge, January 2001, 17 pages.	
	AC4	Watanabe et al., "Reflector Imaging Using Borehole Acoustic Reflection Survey", Proc. Fourth Well Logging Symp. Japan, Soc. Prof. Well Log Anal., Paper Q, 1998, 8 pages.	
	CC01	Porter, H. P., Petroleum Dictionary for Oil, Field, and Factory, The Gulf Publishing Company, 1948, 4th Ed., page 312.	

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